



VERSION OF CLAIMS MARKED TO SHOW CHANGES MADE THERETO

3. An image pickup device comprising:

a color filter array comprising color filters arranged in horizontal and vertical directions;

a plurality of pixels including photoelectric converting elements arranged in the horizontal and vertical directions, respectively corresponding to the color filters;

a plurality of vertical read-out units provided for a plurality of pixels arranged in the vertical direction, said plurality of vertical read-out units arranged to read out signals from the plurality of pixels arranged in the vertical direction;

a horizontal read-out unit arranged to read out sequentially the signals from said plurality of vertical read-out units in the horizontal direction;

an output unit arranged to output sequentially the signals from said horizontal read-out unit; and

a control unit arranged to divide the plurality of pixels on a unit basis of a predetermined number of lines, which includes a plurality of first lines and a plurality of second lines, and to add the signals of pixels of the plurality of first lines and the signals of pixels of the plurality of second lines[, in order to control pixels of the] to generate different kinds of color difference signals corresponding respectively to different groups of a predetermined number of lines so as to generate one kind of color difference signal from every predetermined number of lines.